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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,958	09/18/2003	Timothy Forrester	UTL 00099	8317
32968	7590	02/09/2006	EXAMINER	
KYOCERA WIRELESS CORP. P.O. BOX 928289 SAN DIEGO, CA 92192-8289			LE, LANA N	
			ART UNIT	PAPER NUMBER
			2685	

DATE MAILED: 02/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/665,958	Applicant(s) FORRESTER, TIMOTHY	
	Examiner Lana N. Le	Art Unit 2685	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 13 is/are rejected.
- 7) ☒ Claim(s) 8-12 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
2. Claim 5 recites the limitation "high-power component" in claims 1 and 3. There is insufficient antecedent basis for this limitation in the claim. It's not clear whether the high power component is the same as the "noise sensitive component" of claim 1.

Claim Objections

3. Claim 2 is objected to because of the following informalities: "surrounding" after "partially" should be "surrounds". Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-3, 5, 7 and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Gerhard et al (US 2004/0,180,644).

Regarding claim 1, Gerhard et al disclose a mobile communication device, comprising:

a printed wiring board assembly (integrated semiconductor chip; para. 1, 8) having at least one high-power noise-producing component (18) and at least one noise sensitive component (LO balun 14), the assembly further including signal traces (traces 32, 34 connecting mixer to LO and RF balun 12) (para. 15);

means (plated holes 20 in rows 22 and 24) defining an electrically isolated area being configured to at least partially surround at least one of the components (mixer 18) (para. 16); and

means (open space from the end of last right hole 20 of row 24 and right hole 20 of row 22) defining a gap in the area for receiving the traces for the partially surrounded at least one component (para. 15).

Regarding claim 2, Gerhard et al disclose a mobile communication device according to claim 1, wherein the isolated area partially surrounding the noise sensitive component (14).

Regarding claim 3, Gerhard et al disclose the mobile communication device according to claim 2, wherein the noise sensitive component is an oscillator (LO 14).

Regarding claim 5, Gerhard et al disclose the mobile communication device according to claim 3, wherein the high-power component is a transmitter (12).

Regarding claim 7, Gerhard et al disclose the mobile communication device according to claim 1, wherein Gerhard et al disclose the isolated area is the form of a narrow band (rows 24 and 22).

Regarding claim 13, Gerhard et al disclose a method of making a mobile communication device, comprising:

forming an electrically isolated area (plated holes 20 in rows 22 and 24) at least partially surrounding at least one component (mixer 18) on a printed wiring board assembly (para. 16), and

forming a gap (open space from the end of last right hole 20 of row 24 and right hole 20 of row 22) in the area for receiving traces for the at least partially surrounded component (para. 15).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gerhard et al (US 2004/0,180,644).

Regarding claim 4, Gerhard et al disclose the mobile communication device according to claim 3, wherein Gerhard et al do not disclose the oscillator is a phase lock loop. However, it is notoriously old and well known in the art to have the oscillator be a

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phase lock loop. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made for the oscillator to be a phase lock loop in order to synchronize the variable oscillator to the phase of the transmitted signal.

Regarding claim 6, Gerhard et al disclose the mobile communication device according to claim 1, further including at least one resistor connected bridging across the isolated area. Gerhard et al do not disclose at least one capacitor to serve as a high pass filter bridging across the isolated area. However, it is notoriously old and well known in the art to connect a capacitor instead of a resistor. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have a capacitor instead of a resistor in order to remove unwanted frequency components.

Allowable Subject Matter

8. Claims 8-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

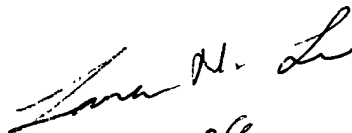
Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lana Le


02-01-09
LANA LE
PRIMARY EXAMINER